

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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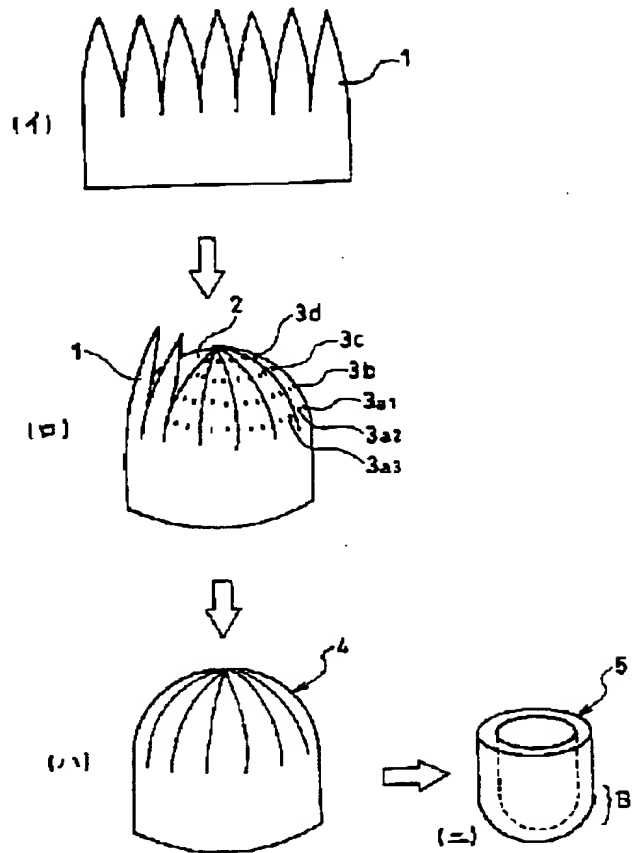
APPLICATION DATE : 06-08-97  
APPLICATION NUMBER : 09211703

APPLICANT : TOYO TANSO KK;

INVENTOR : HIRAOKA TOSHIJI;

INT.CL. : C30B 15/10 C04B 35/83 C30B 29/06

TITLE : CRUCIBLE FOR PULLING UP SINGLE CRYSTAL



ABSTRACT : PROBLEM TO BE SOLVED: To provide a C/C material crucible of an integral body having sufficient strength even in a bottom by eliminating the defect of the conventional C/C material crucible.

SOLUTION: This crucible 5 for pulling up a single crystal is constituted by forming a crucible consisting of a straight cylindrical part and a projecting bottom integrally continuous with the lower side of the straight cylindrical part by a carbon fiber reinforced carbon composite material. The carbon fiber reinforced carbon composite material comprises a woven fabric of carbon fibers as a filler and pyrolysis carbon as a matrix and is formed by sewing the woven fabric of the carbon fibers in a thickness direction.

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